

19970914.qrp v00_n848.qrs.970914

>From ???@??? Mon Sep 15 08:59:31 1997
Date: Sun, 14 Sep 1997 19:03:15 EDT
Subject: QRP-L digest 848
Message-Id: <97Sep14.190551edt.35048-68068+131@fidoii.cc.Lehigh.EDU>

QRP-L Digest 848

Topics covered in this issue include:

- 1) [26738] noise
by "Rick LaBanca" <rickl@loa.com>
- 2) [26739] 17 meters !
by Joel Malman <malman@BBN.COM>
- 3) [26740] Re: Projects for the winter
by Bill Meahan <www@wa8tzg.mi.org>
- 4) [26741] Re: Software for QSL cards wanted
by Craig LaBarge <LaBarge_C@compuserve.com>
- 5) [26742] Re: Projects for the winter
by N9DD@aol.com
- 6) [26743] Re: Projects for the winter
by Bill Myers <bjmyers@arc.net>
- 7) [26744] Re: Canadian Fox message decoded.
by John Moriarity <k6qq@SOCAL.WANet.com>
- 8) [26745] Re: Projects for the winter
by N4JS <n4js@amsat.org>
- 9) [26746] Silver contacts are in mail, now
by Jim W7LS <w7ls@brigadoon.com>
- 10) [26747] Peter Sellers - Morse tappers track and the K1MG counter
by "Graham Firth" <Graham.Firth@btinternet.com>
- 11) [26748] Another TIN
by John Horton <jhorton@primenet.com>
- 12) [26749] Few days later, a QSL!
by Steve Galchutt <n0tu@webaccess.net>
- 13) [26750] Re: Few days later, a QSL!
by Thomas Isgro <kc8dgu@postoffice.worldnet.att.net>
- 14) [26751] more staggering Yagis
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
- 15) [26752] Re: Projects for the winter
by dzn1@juno.com (Howard D Rubin)
- 16) [26753] Re: 17m QRP freq?
by "Jim Kortge, K8IQY" <jokortge@mci2000.com>
- 17) [26754] L.E.D. TUNNING INDICATOR
by ARDUJENSKI@aol.com
- 18) [26755] Re: F Connector usage
by beache@juno.com (Edward B Beach)
- 19) [26756] Re: Projects for the winter

- by wb8ygg@juno.com (Bradley S. Mitchell)
- 20) [26757] My talk at Pacificon (Curtis)
by wb8ygg@juno.com (Bradley S. Mitchell)
- 21) [26758] Tentec Century 22 for sale
by Robsparks@aol.com
- 22) [26759] CQC at QRP Afield
by "Marshall Emm" <mgemm@mtechnologies.com>
- 23) [26760] Re: F Connector usage
by Monte Stark <ku7y@sage.dri.edu>
- 24) [26761] Re: F Connector usage
by Ed Tanton <n4xy@bellsouth.net>
- 25) [26762] Re: Projects for the winter
by Rich Mulvey <mulveyr@frontiernet.net>
- 26) [26763] Projects for the Winter
by d.nordquest@juno.com
- 27) [26764] winter projects
by Steven Weber <kd1jv@moose.ncia.net>
- 28) [26765] Vertical Antenna project - help
by "Kelly Ellison" <kelman@dialnet.net>
- 29) [26766] NQ7X off to Aurora,CO
by flydnq7x@primenet.com (Floyd Smithberg)
- 30) [26767] Re: QSL card design
by "J. Medley" <jmedley@ix.netcom.com>
- 31) [26768] QRP AField, Sept. 20th
by wa5whn@juno.com
- 32) [26769] QRP BEACONS ARE COMING!! QRP BEACONS ARE COMING!!
by Pete Rossi <wa3nna@resuba.com>
- 33) [26770] Re: Vertical Antenna project - help
by K5BDZ@aol.com

Date: Sat, 13 Sep 1997 19:54:24 -0400
From: "Rick LaBanca" <rickl@loa.com>
To: "Qrp List" <qrp-l@Lehigh.EDU>
Subject: [26738] noise
Message-ID: <199709132351.TAA38480@nss2.CC.Lehigh.EDU>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Sorta qrp related, since digging signals out of noise is something done!

Any tips on reducing computer emissions to the radio? I have a sony monitor, and it's better than most but still can be heard on the rig. In fact it's the main thing, not the computer as much. Any ideas?

I also have dimmer switches (x10 controlled). The cubes you use for lamps are loud! The in wall switches seem to be ok. Thought most dimmers were supposed to have filtering but not these! Maybe no solution for them.

Rick

Date: Sat, 13 Sep 97 20:01:46 EDT
From: Joel Malman <malman@BBN.COM>
To: qrp-l@Lehigh.EDU
Cc: malman@BBN.COM
Subject: [26739] 17 meters !
Message-ID: <199709140002.UAA26202@nss2.CC.Lehigh.EDU>

Folks,

I turned on the QRP rig tonight at about 2330z and started to tune around 17 meters. I did not think I would hear anything as the football game on channel 4 did not show anything unusual (around here, when 17m is open channel 4 is really bad-news to watch). BTW: Notre Dame LOST!

I tuned around quickly. Only one station on the band. He sounded like a local, on ground wave. I decided to give a listen to see if anyone would answer his CQ's.

What I thought sounded like a local turned out to be JA3DMD/4 (18082.5 MHz) and he was working everyone! I wait my turn, he says QRZ, I send my de WA1QVM. He says QVM? I send WA1QVM. He answers me. We exchange reports, I tell him I'm QRP, he says 72. WOW. First QRP JA for me on 17 meters. Boy am I glad I turned the rig on!

It's 0000z and he is still working station after station.

I'm going to fill out a QSL card for this contact!

/joel wa1qvm malman@bbn.com Concord, Ma.
QRP-L 337, NORCAL 1884, QRP-ARCI 9305, et al.

Date: Sat, 13 Sep 1997 19:51:50 -0500
From: Bill Meahan <www@wa8tzg.mi.org>

To: qrp-l@Lehigh.EDU
Subject: [26740] Re: Projects for the winter
Message-ID: <341b2718.wa8tztg@wa8tztg.mi.org>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

On 13 Sep 97 at 12:29, laura halliday wrote:

> I've been ruminating on some things and may have come up with
> an in-depth project for the winter - have a go at IF DSP. You
> can probably blame Future/Active for this, who cheerfully sold
> me an SD5400 quad D-MOS FET IC, the same as used in the front
> end of radios like the Watkins-Johnson HF-1000 and other very
> serious hardware.
[snip]

The SD5400CY (16-pin SOIC) are now available from Tech America for
\$3.99 (qty 1-9). (Who said they don't sell RF parts?)

Sounds like something I'd be interested in playing around with myself
-- assuming I get the current house renovation project done so I can
get into my shack/lab again ;-)

BTW anyone have comments on the "plug-and-play" frequency controller
in the current QST? Seems an _awful_ lot like the discussion Dave
Benson (NN1G) and I conducted on the list several months back. I
suspect strongly that the "Radio Adventures C7 control chip" is just
a pre-programmed PIC. Leaves me with the dilemma: take the easy way
out and by the RA kit or develop my own version (as I have been
mentally working on all summer).

--

Bill Meahan WA8TZG wmeahan@wa8tztg.mi.org
ARRL, IMRA, QRP-L(#117), NorCal QRP (#407), G-QRP (#8468), MI-QRP (#M1458)
All statements herein are worth exactly what you paid for them
cat: a purr bearing mammal

Date: Sat, 13 Sep 1997 21:10:38 -0400
From: Craig LaBarge <LaBarge_C@compuserve.com>
To: QRP-L Mailing List <qrp-l@Lehigh.EDU>
Subject: [26741] Re: Software for QSL cards wanted
Message-ID: <199709132110_MC2-2053-DE0F@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable

Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

Michael <MichaelN@cycat.com> wrote:

>Can anyone give me a pointer to software for the design
>and printing of QSL cards? I am using Win95 and a 300
>DPI inkjet printer."

I've been using MSPublisher for Win95. I print out =

three per page on paper as a master and then take them
down to the local Kinko's to be copied onto card stock.
They will even cut them apart for a nominal fee. It
saves a lot of ink and wear and tear on my inkjet
printer.

73, Craig WB3GCK=

Date: Sat, 13 Sep 1997 22:02:50 -0400 (EDT)
From: N9DD@aol.com
To: qrp-1@Lehigh.EDU
Subject: [26742] Re: Projects for the winter
Message-ID: <970913220249_-1933701722@emout07.mail.aol.com>

Hello fellow QRPers:

Laura's message brought to mind a project I've had in mind for quite a while.
I need to get a QRP rig on 160 meters. Quiet, winter weather makes for better
conditions on the lower bands. QRPers, as a whole, have neglected 160. I
think this should change.

Most of us who have been "into QRP" for several years have homebrew rigs for
80, 40, 30, 20, etc. Few, if any of the QRP kit manufacturers have come out
with a rig for 160. I was under the impression that NN1G had a kit out that
would do 160, but when I asked him about it at Dayton, he either
misunderstood my question, or I did a poor job of explaining what I was
looking for. I was ready to buy a 160 rig!

What kits are available for the "top band". Has anyone had success putting a
rig on 160 with circuits from any of the QRP books?

Perhaps one of the QRP clubs should sponsor a QRP contest on 160. Wouldn't
that wake up some of the QRO types on that band! :-) I think it would be a
great project for the Indiana QRP Club (no, I don't know that there is such a

club, but maybe this will stir up some interest - I can only hope...).

So, how about getting together on 160 this winter? Its kind of like taking the future of ham radio back to its roots. I hope to see you there this winter.

Tom Frisz N9DD
South Bend, IN

QRP since '73!

Date: Sat, 13 Sep 1997 22:19:43
From: Bill Myers <bjmyers@arc.net>
To: "Low Power Amateur Radio Discussions" <qrp-l@Lehigh.EDU>
Subject: [26743] Re: Projects for the winter
Message-ID: <3.0.1.16.19970913221943.09cf2020@mail.arc.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 10:02 PM 9/13/97 -0400, you wrote:

>Hello fellow QRPers:

>

>Laura's message brought to mind a project I've had in mind for quite a while.

>I need to get a QRP rig on 160 meters. Quiet, winter weather makes for better

>conditions on the lower bands. QRPers, as a whole, have neglected 160. I

>think this should change.

Tom...

A quick check of the various web pages of QRP makers shows that KANGA (oner), Wilderness (Sierra), and Small Wonder Labs (SW series) have qrp rigs for 160. I've been looking at them seriously for the winter months myself.

>So, how about getting together on 160 this winter? Its kind of like taking

>the future of ham radio back to its roots. I hope to see you there this

>winter.

I plan on being there, I'm working on an adequate antenna now, while it's still warm and I'm not too busy.

72/73

--

Bill Myers KK4KF Grid - EM60rk
FISTS QRP-L ARCI scQRPions CQC NE AK/QRP NorCAL
Snail Mail P. O. Box 178 Shalimar, FL 32579
e-mail <bjmyers@arc.net>
homepage <http://www.nfds.net/~bmyers/>
CHECK OUT THE FISTS INTERNATIONAL CW CLUB U. S. HOMEPAGE
AT <http://www.fists.org>

Date: Sat, 13 Sep 1997 20:34:23 -0700 (PDT)
From: John Moriarity <k6qq@SOCAL.WANet.com>
To: qrp-l@Lehigh.EDU
Subject: [26744] Re: Canadian Fox message decoded.
Message-ID: <3.0.16.19970913183453.246fc00e@SOCAL.WANet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello All,

I passed Laura's signature message to a French speaker in the office.
His first comment was: "Is this a suicide note?" 8-\

I feel a little put down by Laura's saying that she doesn't answer queries
by us stupid people for a translation. (I can only manage Spanish and
German.) But then, she didn't answer a technical request from me either.

72,

John, K6QQ

Date: Sun, 14 Sep 1997 00:30:19 -0400
From: N4JS <n4js@amsat.org>
To: N9DD@aol.com, qrp-l@Lehigh.EDU
Subject: [26745] Re: Projects for the winter
Message-ID: <v03110700b0411814859c@[206.106.174.44]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>

>Most of us who have been "into QRP" for several years have homebrew rigs for

>80, 40, 30, 20, etc. Few, if any of the QRP kit manufacturers have come out
>with a rig for 160. I was under the impression that NN1G had a kit out that
>would do 160, but when I asked him about it at Dayton, he either
>misunderstood my question, or I did a poor job of explaining what I was
>looking for. I was ready to buy a 160 rig!

I am ready to go! NN1G DOES make a 160M kit. The SW-XX series has an SW160 it is ready to go! Puts out almost 3 watts. One addition...put a heat ink on the final transistor! Be lloking for you on 160. I had thought that maybe on Fox nights, after the hunt, we could gather on 1810 and have a qrp post-hunt chat.

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      | _ | \ _ | | _ | | _ _ _ / | _ _ _ / | _ _ _ / | _ _ _ / | _ _ _ /
G-QRP #9544  Norcal #1989  QCWA CQrp CQC ARS #243  FISTS #2781
      Formerly: K3HLU, W7JEF, W4MPC, TF2WKT
John L. Sielke n4js@amsat.org  n4js@pobox.com
                        n4js@qsl.net  NJ Grid:FM29LN
                        http://www.qsl.net/n4js  NJ-QRP #57
QRP-L #884  QRP-ARCI #9328 NE-QRP #507

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Date: Sat, 13 Sep 1997 22:01:37 -0700 (PDT)
From: Jim W7LS <w7ls@brigadoon.com>
To: qrp-1@Lehigh.EDU
Subject: [26746] Silver contacts are in mail, now
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi, guys. I had more interest in the silver contacts than I had contacts, so I had to go out and pick some more up. I mailed them all out yesterday, so you should all have them in a few days.

For those of you who missed out, here's the deal: I found a small source of contacts and can get them for the gang if they wish. These are the same contacts (looks the same, anyway) as you find on Vibroplex paddles, etc. These aren't rare or anything. I think they are just the contacts that are on big relays. Anyhoo, they are made out of copper, are about 1/8" indiameter, silver plated, and have a piece sticking out the back that you can solder onto something or into a circuit board. People want these to make their own key paddles, etc.

If anyone still wants some, let me know HERE, first. If there is interest, I can get some more. I need to know how many to pick up. I'll wait to see what happens for a week or so, and then tell you guys what to do to get them. Tnx/73 de Jim, W7LS

Date: Sun, 14 Sep 1997 10:01:30 +0100
From: "Graham Firth" <Graham.Firth@btinternet.com>
To: "qrp-1" <qrp-1@Lehigh.EDU>
Subject: [26747] Peter Sellers - Morse tappers track and the K1MG counter
Message-ID: <E0xAB64-0005oC-00@helium.btinternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi

The posting I did to the list about the Night and Day with morse stirred up quite a few comments. A number of people are trying to buy the complete album, but to wet anyone interested's appetite, I have put a very short extract on <http://www.qsl.net/g3mfj/> (at Tony G4WIF's suggestion!).

Secondly, I have just built the K1MG digital counter kit. This is a very impressive kit - counts up to 32MHz with up to 32 offsets (+ or -), and it has a UTC clock! All I need now is a suitable rig to put it in. It seems overkill to put it in the 38s! Any suggestions about multi band kits?

All the best to all

Graham
G3MFJ/AB7VN

Date: Sun, 14 Sep 1997 03:19:17 -0700
From: John Horton <jhorton@primenet.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [26748] Another TIN
Message-ID: <341BBA25.D8CA2909@primenet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Friday here in Tucson, I was at Sam's Club and bought some playing cards in Harley-Davidson Limited Edition Tin and Historical Playing Cards. The box measures 5-1/4 X 3-3/16 X 1-3/8 inches. The sticker in side states that there are 255,000 BOXES. \$5.00 for two decks and the Tin Too. Such a Deal. The 38 Special will fit nicely inside. Maybe enough

room for the Rainbow Tuner.

De KE7CW....John.

Date: Sun, 14 Sep 1997 17:29:18 -0600
From: Steve Galchutt <n0tu@webaccess.net>
To: "\"Low Power Amateur Radio Discussion\"" <qrp-1@Lehigh.EDU>
Subject: [26749] Few days later, a QSL!
Message-ID: <341C734E.127F@webaccess.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

As I sifted through a stack of OSLs this morning I started to think..."What a fun sport Ham Radio is"....after building your own rig and fussing w/antennas, you finally make contact with another ham. You proceed to engage in lengthy QSO and then sign off or loss each other whilst the band collapses. Sitting there wondering "did I just talk with another ham?" Someone like me who likes this stuff - CW?. Few days later, along comes a post card (a color-full QSL of various designs) to confirm it did happen. It's the best mail I get! Not only is HR a fun activity but you get a 'confirmed memory' to toss in a shoe box or proudly display it on the wall. What an incredible hobby/sport!

-----Steve > n0tu . .

email:N0TU@webaccess.net
homepage <<http://www.webaccess.net/~S&P>>

Date: Sun, 14 Sep 1997 08:20:49 -0400
From: Thomas Isgro <kc8dgu@postoffice.worldnet.att.net>
To: n0tu@webaccess.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [26750] Re: Few days later, a QSL!
Message-ID: <341BD6A1.1F7D@postoffice.worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Steve Galchutt wrote:

>

> As I sifted through a stack of OSLs this morning I started to

> think..."What a fun sport Ham Radio is"....after building your own rig
> and fussing w/antennas, you finally make contact with another ham. You
> proceed to engage in lengthy QSO and then sign off or lose each other
> whilst the band collapses. Sitting there wondering "did I just talk with
> another ham?" Someone like me who likes this stuff - CW?. Few days
> later, along comes a post card (a color-full QSL of various designs) to
> confirm it did happen. It's the best mail I get! Not only is HR a fun
> activity but you get a 'confirmed memory' to toss in a shoe box or
> proudly display it on the wall. What an incredible hobby/sport!
> -----Steve > n0tu . .
> email:N0TU@webaccess.net
> homepage <<http://www.webaccess.net/~S&P>>

Not to mention there are a great bunch of operators out here. When I
got my license two years ago, I was immediately welcomed into the hobby
by the members of the local club. I have never felt so welcome in any
other organization I have joined so quickly. Everyone is willing to
help, and all offer their suggestions with tact and genuine good
intentions. HR people are the "creme de la creme."

--

73 de
KI8CZ
Tom Isgro
OHIO

<http://www.qsl.net/ki8cz>

10-X #68364	SCI #1479	QRP-L #945	ARS #203
C.A.T.T #2115	FIST 2360	NORCAL	ARRL

Date: Sun, 14 Sep 1997 10:04:52 -0400 (EDT)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: towertalk@contesting.com, antennas@qth.net, QRP-L List <qrp-l@Lehigh.EDU>
Subject: [26751] more staggering Yagis
Message-ID: <Pine.SOL.3.94.970914100138.11078C-1000000@utkux4.cas.utk.edu>

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On a bet, I explored the possibility of employing the same staggering technique with 4-element Yagis. Yes, it can be done. Yes, it has some advantages. Yes, it has some limitations. Notes on the idea, carried only to the "in principle" (that is untapered model elements) level have been added to the "123. . ." entry at the site.

Now if I had only bet a bundle on the idea. . .

-73-

LB, W4RNL

L. B. Cebik, W4RNL	/\	/\	*	/	/	/	(Off)	(423)	974-7215	
1434 High Mesa Drive	/	\	\	\	----	/\---	(Hm)	(423)	938-6335	
Knoxville, Tennessee	/\	\	\	\	/	/		(FAX)	(423)	974-3509
37938-4443 USA	/	\	\	\	\					cebik@utk.edu
URL: http://funnelweb.utcc.utk.edu/~cebik/radio.html										

Date: Sun, 14 Sep 1997 10:26:08 -0400
From: dzn1@juno.com (Howard D Rubin)
To: ve7ldh@direct.ca
Cc: qrp-1@Lehigh.EDU
Subject: [26752] Re: Projects for the winter
Message-ID: <19970914.102614.9910.0.dzn1@juno.com>

Laura,

An interesting project idea on which I would enjoy being involved. I suggest use of a commercial DSP platform that doesn't involve a lot of fine-detail packaging expertise and equipment. Most of us don't have surface mount capability with 128/144 - 40/50 mil spaced pins. Consider one of the TI DSK platforms with peripheral components added/substituted at header connectors. One of the TI parts that may well serve the need is the TMS320LC542, and there is a DSK platform (\$150) available through many of the electronics distributors (Arrow, Marshall, Hamilton-Hallmark, Wyle and Anthem) that includes this device.

I prefer the 'C54x family because it was designed with applications for

wireless communications in mind and because it is most familiar to me. The biggest challenge I see is to move data to internal RAM for processing, but if you limit the data rate to less than 40 Mbps (4 Msps with an 8-bit converter and overhead) you should be able to support a 455kHz IF frequency and still have processor MIPS available for the filtering algorithm. The C542 has two high speed buffered serial ports for data I/O and a 16 bit host port interface for local control. It has 10K-words of internal high-speed dual-access RAM which may be used as program or data space. An external memory interface with programmable wait-states can be used to increase memory space up to 64K-words for program or data and which could be used to read boot-up program data from EPROM. If a custom layout is permissible, higher speed C54x DSPs are available which may include other peripheral and memory configurations. The C54x has three levels of power-down which can effect longer battery life for portable applications.

Another advantage of the TI DSK is that it comes bundled with development and debugger software and there are many example algorithms for the 'C54x CPU. Check out the TI web site at <http://www.ti.com>.

Howard Rubin, N3FEL
Editor, X-Mitter
Penn Wireless Association
<http://www.pennwireless.org>

On Sat, 13 Sep 1997 12:29:54 -0700 laura halliday <ve7ldh@direct.ca> writes:

>I've been ruminating on some things and may have come up with
>an in-depth project for the winter - have a go at IF DSP. You
>can probably blame Future/Active for this, who cheerfully sold
>me an SD5400 quad D-MOS FET IC, the same as used in the front
>end of radios like the Watkins-Johnson HF-1000 and other very
>serious hardware. For the DSP end, a final IF in the 20-25 kHz
>range, then a serious DSP (e.g. ADSP21061). Now I just have to
>fill in the gaps between...
>
>This could be *fun*. :-)
>
>Looking at the specs of the SD5400, I see that the Rds(on) of
>the individual FETs is some tens of ohms, just like the 74HC4066
>mixers I was playing with at the beginning of this year. The big
>difference (other than the price tag :-)) is the switching time -
>1 ns for the SD5400, 15 ns for the 74HC4066. That explains a lot
>about the relative performance of these beasts at HF.
>
>By way of comparison, an IRF510 has Rds(on) of 0.54 ohms, with
>switching times on the order of 20 ns. Being a power device,

>International Rectifier spec them differently: switching time,
>plus rise and fall time.
>
>A propos my sig - I'm amazed that my silly little sig quotes
>are the object of such interest. They're my polite-but-firm
>reminder that this is an international list, devoted to an
>international hobby, using an international network to do it.
>Another list I subscribe to has postings routinely in four
>languages (English, German, Dutch, French), with occasional
>postings in half a dozen more. I read them (or stumble through
>them, depending on the language), and think nothing of it.
>Only the Finnish postings remain more-or-less impenetrable.
>Does this mean I'm weird?
>
>As a corollary to this, I don't like my postings being an object
>of curiosity just because of my sig quote - I'd rather people
>read what I've said. Thus, email that only asks "what's your sig
>say?" gets nuked on the spot.
>--
>Laura Halliday "Les cigognes se sont envolées
>ve7ldh@direct.ca Est-ce que nos promesses seront éternelles?
>Grid: CN89mg Les tournesols se sont refermés
>(Chenevez/Laporte) Peut-être la vie est-elle encore belle."
>
>

Date: Sun, 14 Sep 1997 09:47:41 -0400
From: "Jim Kortge, K8IQY" <jokortge@mci2000.com>
To: wr.moore@worldnet.att.net
Cc: qrp-l@Lehigh.EDU
Subject: [26753] Re: 17m QRP freq?
Message-ID: <3.0.1.16.19970914094741.19ef4a2c@mail-cluster.pcy.mci.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii

At 05:01 PM 9/12/97 -0500, you wrote:
>Where do you guys hang out on 17m? Its been open very nicely this
>afternoon from N. Alabama.
>
>72/73,
>Randy, KS4L
>
Randy...I hang out from 18.068 through 18.092; exactly the
range of the VX0 in my recreated 38S for 17 meters. I'll
be looking for you!

72....Jim

Jim Kortge, K8IQY (ex NU8N) | NorCal, QRP-L
jokortge@mci2000.com | __o H.F. bicycle mobile
Fenton, MI | _`\
... .. (*)/(*)
NorCal 38S/30 Log - 34 States; 40 Countries - Running 3 watts
Most recent - Iowa Mauritius

NorCal 38S/17 Log - 11 States; 18 Countries - Running 1.5 watts
Most recent - Idaho Corsica

Date: Sun, 14 Sep 1997 11:21:50 -0400 (EDT)
From: ARDUJENSKI@aol.com
To: qrp-l@Lehigh.EDU
Subject: [26754] L.E.D. TUNING INDICATOR
Message-ID: <970914112149_394898259@emout02.mail.aol.com>

Just a followup to last week's TUNING INDICATOR message. A "cheap" indicator can be made by just making a few turns around the toroid (or coil) in your tuner and connect in series with a L.E.D. You need to keep the LED from getting too bright so you have to either play with the number of turns or add a small resistor to the circuit.

It is as accurate as your eye can detect but not as good (in my book) as having the meter also. Just thought I would pass this along for what it is worth. You folks that asked for plans for the TUNING METER should have them by now.

Alan KB7MBI

Date: Sun, 14 Sep 1997 11:54:20 EDT
From: beache@juno.com (Edward B Beach)
To: n4xy@bellsouth.net
Cc: qrp-l@Lehigh.EDU
Subject: [26755] Re: F Connector usage
Message-ID: <19970914.115355.4255.0.beache@juno.com>

On Thu, 11 Sep 1997 19:26:06 -0400 Ed Tanton <n4xy@bellsouth.net> writes:

>Hi Ted... I just had to make a few comments related to yours...
>,snip.
>you
>will find is rotten braid where the poor connection seals have allowed
>water to destroy the braid. The last time I replaced mine, I had to
>back up
>six inches to find useable braid.
>
Unfortunately, one will have this problem any time a connector is left
out in the weather. Good sealing will take care of this problem.

>No offense, but your Daiwa-or the connections to it-were somehow
>screwed
>up. Daiwa uses coaxial cavities, and are far superior to ANY regular
>amateur switch available-much less a push-button RS switch.
>
OOPS. I beg to differ here. In an actual test, I connected my IC706 and
MFJ swr analyzer to an MFJ transmatch. Using the Daiwa switch, the
analyzer signal was 30dB over S9 when the Ic706 was supposedly switched
out. With the high-isolation RS switch, I could not hear the analyzer
signal in the IC706 at all. When I opened the two switches, I found the
Daiwa has but a single large cavity with simplistic cam-operated
conductor switching all within the same cavity.

<snip> RG-8X is cheaper than RG-213... does that make it
>preferable?
>Not for long cable runs, higher frequencies, or higher power. You need
>to
>match the component to the task. I am not willing to part with
>dBs-even
>fractions-I can reasonably avoid losing, whether the loss is inherent
>to
>the connector, due to poor connections, or poorly designed devices or
>parts.
If you want to discuss dBs and fractions, I don't know why anyone would
choose to use coax cable for a transmission line at all! Look at any dB
loss/100' chart and you will see what I mean. Coax is used because it is
convenient and can go places open-wire line cannot, but it is lossy as
all getout. I use HB open-wire line for transmission line at home.

<snip>Furthermore, about the "F": I will never condone the use of any
>connector
>in a hamshack-or anywhere else I have any control over the
>matter-where the
>center conductor relies on contact between a bare copper wire and
>another
>conductor. Copper oxide is not a conductor, and-sooner or later-it
>ain't

>gonna work.

>

>

I mostly use the F connectors indoors to connect rig to transmatch/bridge, etc., and have never had a problem. I sometimes use RG8x which has a stranded inner conductor that is larger than what the F receptacle likes. In this case, I remove a couple of strands, twist tightly and tin. No copper oxide here. One could also do this with RG58, but I have not found it necessary.

I have been known to use F connectors outdoors too. A year or so ago I built a mobile GPRS antenna which was described in QST. I used a bulkhead F connector to make the antenna, and the thing has worked ok since installation. We're talking 1.75 GHz here, and I have'nt gotten lost yet.

BTW, I received 4 direct emails in response to the original QRP-L posting, and two were supportive while yours was one of the other two. Anyway, as I said, it was my .02 worth -- whatever works is good. That's why I enjoy ham radio!

72/73 de

Ted -- K4MKX

NORCAL #2213 -- QRP ARCI #8970 -- QRP-L #1149

Date: Sun, 14 Sep 1997 11:55:04 -0400
From: wb8ygg@juno.com (Bradley S. Mitchell)
To: qrp-l@Lehigh.EDU
Subject: [26756] Re: Projects for the winter
Message-ID: <19970914.121126.16166.0.WB8YGG@juno.com>

I think that a good idea for a project for the winter is as follows:

Find someone that has the complete pile of Ham Radio, QST, CQ, and 73 magazines from the 60's through the 80's. Then Borrow them.

Take a stack of about 20 at a time, and just find out how many neat ideas there are that we haven't re-discovered yet!

In doing research for the Pacificon talk, I've discovered a whole new world just waiting to be re-discovered. You'll be surprised what has been tried before, and done! I'll bet project material will be never ending.

Try it you'll like it.

73 Brad WB8YGG
Embedded Research
<http://www.frontiernet.net/~embres>

Date: Sun, 14 Sep 1997 12:11:22 -0400
From: wb8ygg@juno.com (Bradley S. Mitchell)
To: qrp-1@Lehigh.EDU
Subject: [26757] My talk at Pacificon (Curtis)
Message-ID: <19970914.121126.16166.1.WB8YGG@juno.com>

Hi folks, I just wanted to let you know that at Pacificon, my half of the talk will be regarding Curtis Electro Devices (Gary N2JGU , the other half of ER, will be providing the other half of the talk with concentration on our keyer products).

I have done research to cover Curtis' entire Amateur Radio career. I have scanned images from original Adds, Product announcements, and Original Glossy Photographs from Curtis. 32 Overhead slides in all.

I have also spent extensive time reading, and talking With John Curtis to complete the knowledge base. This will be a totally non technical talk, with lots of pictures!
A good thing for first thing in the morning!

I hope to see you all there. Saturday October 18th at 9:00 Concord Hilton.

73 Brad WB8YGG
Embedded Research.
<http://www.frontiernet.net/~embres>

Date: Sun, 14 Sep 1997 12:19:19 -0400 (EDT)
From: Robspark@aol.com
To: qrp-1@Lehigh.EDU
Subject: [26758] Tentec Century 22 for sale
Message-ID: <970914121917_639599182@emout06.mail.aol.com>

Century 22 for sale. This rig is in very good shape and works well. It has installed the optional crystal calibration card and also comes with the matching Tentec power supply and matching keyer - a complete, very handsome CW only setup. Also included are photo copies of the manual. Price is \$450 OBO which includes insured shipping to the lower 48.

Robert Sparks AB5ZD Qrp-L #185
robspark@aol.com or (318) 448-3206 daytime phone

Date: Sun, 14 Sep 1997 10:27:26 +0000
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: qrp-l@Lehigh.EDU
Cc: cqca@aol.com, rschneid@ix.netcom.com, zeekzilch@juno.com,
jmedley@ix.netcom.com, n1fn@mtechnologies.com
Subject: [26759] CQC at QRP Afield
Message-ID: <199709141627.KAA20171@bobcat.sni.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

CQC will be participating in the NE QRP Club's QRP Afield event next Saturday. We'll be operating W0CQC from Daniel's Park, south of Denver.

Members and visitors are welcome-- we'll have at least two stations going and an opportunity for guest operators to get on the air.

Directions, info, rules, and map are on the web site:
<http://www.mtechnologies.com/mthome/cqcevent.htm>.

Date: Sun, 14 Sep 1997 09:26:58 -0700
From: Monte Stark <ku7y@sage.dri.edu>
To: beache@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [26760] Re: F Connector usage
Message-ID: <341C1052.56F9@sage.dri.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Ted and all,

I worked around a lot of the old C band SatTV about 12 years ago.

I have used and seen F connectors that were good and bad!

I think they are like most any other connector. If they are done right, they are fine. If not, they will fail!

The number one failure I saw was when the cheap crimping tools were used. You must use a tool that puts a small dimple (sp?) on one side of the crimp.

Like all other connectors used outside, protect them from all the water!

What do I use??

Well, I use whatever is easy and cheap.

Going from the 75 ohm CATV hardline at the top of the tower, to regular coax, I wrap the braid of the coax around the solid shield of the hardline and hold it with a hose clamp.

The center conductors are connected with a wire nut.

I also use plenty of the NoOx or whatever the conductive pastes are called!

All splices are done inside a weather proof box mounted on the tower.

The ends at the bottom of the tower use UHF connectors because that is the easy way to use the antenna switch I have!

So, for my 2 cents worth, I say don't worry about what kind of connector as much as how you make the connection!

Enjoy,

Ron, KU7Y

Date: Sun, 14 Sep 1997 12:58:13 -0400
From: Ed Tanton <n4xy@bellsouth.net>
To: beache@juno.com (Edward B Beach)

Cc: QRP-L Reflector <qrp-l@Lehigh.EDU>
Subject: [26761] Re: F Connector usage
Message-ID: <3.0.1.32.19970914125813.00a3bb90@mail.atl.bellsouth.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Ted... very interesting... I had a similar situation with my station that led me to Daiwa switches... I had a B&W switch being used as a 'rig select' switch. The unused 'rig's were grounded. I noticed that I was hearing signals when the output was grounded. One thing led to another, and I built as careful a coaxial SW as you can using coax between SW & connectors (but not shielding between each SW position (beyond the coax.) Didn't work any better. Still signals were heard with/through supposedly grounded positions (and I DID ground the SW directly to the station ground bus (a 6 foot long 1 inch copper pipe.) What to do? I already had one 4 position Daiwa... tried it, and no longer heard signals. Been using them exclusively ever since.

I sort of went against the above at this past Huntsville Hamfest: a guy had some (new) Dow Key Coaxial Switches which looked SO well made, I bought three of em. Beautiful, high quality switches.

It sounds like your RS switch is extraordinary. You might let me know the RS number, because I don't question your veracity for a moment... and it sounds like it would be useful-for a whole lot less than the Daiwa's. I am not a 'Shack basher AT ALL. They are there (closeby), they are open (even Sundays) and they-mostly-are asking reasonable \$\$\$ for their parts. A lot of their stuff is inexpensively made, and you must take that on an individual one at a time basis, but you have to do that for practically everything today anyway.

You're right about feedlines. I NEVER quibble about SWR points. I WOULD try and improve anything above 1.5:1 but mostly below 2:1 it doesn't matter... yet THE answer is OWL feedline. One of the better antennas I ever had was a 12" (~) folded dipole antenna B & W made that was essentially flat (w/<2:1) from 3-30MHz. At the time I was MOSTLY QRO and burned out the center loading whatever... B&W DID-to their credit-replace it with the caveat that it was made for 1KW not 1.5... and eventually I took it down in favor of a 20' higher G5RV. Should never have done that. Couldn't keep the G5RV up at that height. I apparently live on a ridge or something. At 50' that G5RV worked like a million \$\$\$... until a 'good' thunderstorm... then its tree-supports would sooner or later whip in opposite directions and break: #12 stranded steel tower guy wire or the #12 solid copperweld used for the antenna. No variable tension things like springs or even a weight that could slide up and down helped. After the 4th or 5th time, I gave up and lowered it to 30 feet-about where the B & W had worked like a champ. Big mistake!!! Doesn't get out half as well-or so it seems. Heck... it 'seems' worse than that!!! I'm thinking about a cage dipole, or maybe a T2FD. I

About "F" connectors: I THINK I stated it was more prejudice than anything else. And you are absolutely correct, they will work at VHF/UHF freqs. My point all along is that there are better connectors available that aren't a lot more money or trouble to use. Mainly I just get riled up because of the poor practices the cable companies employ-which is not the "F" connector's fault. If you don't put coax seal and tape on them, my "better" connectors don't do a bit better outdoors.

72/73

QRP-ARCI #7663	G-QRP #6779	OK-QRP #172	QRP-L #758	
AdvRC #140	NORCAL #1779		NCDXF	SEDXC
Life Member:	ARRL	AMSAT	INDEXA	QCWA

"Think you can, think you can't: either way you're right!" Henry Ford

Date: Sun, 14 Sep 1997 13:46:32 -0400 (EDT)
From: Rich Mulvey <mulveyr@frontiernet.net>
To: dzn1@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>, <(Howard D Rubin)
dzn1@juno.com>
Subject: [26762] Re: Projects for the winter
Message-ID: <XFMail.970914135229.mulveyr@frontiernet.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 8bit
MIME-Version: 1.0

If you're interested in DSP, don't forget the Motorola 56002EVM board.
There is a *huge* amount of Amateur Radio activity centered around the EVM.
I use mine for:

- o Continous 50HZ - 3000Hz CW/SSB audio filters
- o 1200,9600,19200 VHF/UHF AFSK and PSK modems
- o RTTY modem
- o M-ary HF modem (There's a new modem that was just released that has
AMAZING weak-signal performance. There's a lot of activity on 30M with
this one.
- o DTMF decoder.
- o Audio scope
- o And more!

Not bad for a \$125.00 board. :-)

More information can be found at www.tapr.org, under the DSP SIG.

- Rich

--

Rich Mulvey

mulveyr@frontiernet.net

Rochester, NY USA

<http://www.frontiernet.net/~mulveyr>

Amateur Radio: aa2ys@amsat.org, aa2ys@wb2wxq.#wny.ny.usa

Date: Sun, 14 Sep 1997 14:49:24 EDT

From: d.nordquest@juno.com

To: qrp-1@Lehigh.EDU

Subject: [26763] Projects for the Winter

Message-ID: <19970914.144941.4831.1.d.nordquest@juno.com>

The specs cited in an earlier posting for the SD5400 may also be found in Calogic's Si8901 and SD5000. The FET's in the SD 8901 are connected in a ring for double-balanced mixer use. Those in the SD5000 come uncommitted. Perhaps other specs differ. Does anyone know of differences between these chips and the 5400?

Thanks.

Dave KE9ED

Date: Sun, 14 Sep 1997 14:58:06

From: Steven Weber <kd1jv@moose.ncia.net>

To: qrp-1@Lehigh.EDU
Subject: [26764] winter projects
Message-ID: <3.0.1.16.19970914145806.1e4f6ade@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi All,

Well, I found my "dead rig" here on the list, (a FT301) and that is going to have a serious make over. Plan on fitting a DDS VFO, DDS BFO and PLL heterodyne oscillator into it. Also plan on one of those quad fet "crunch proff" mixers Laura is talking about on the front end followed by a serious IF strip. Should be fun :-) No DSP though, I have one of those TI 'C52 evaluation boards but not a clue what to do with it!

In my "spare time" I hope to also replace the #*&^%! PTO in my Ten-Tec Scout 555 with a 9850 DDS chip. If anyone else is interested in such an idea, I could design it to be reproducible. If there is a lot of interest, I'd do it sooner, rather than later.

73/72

Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Sun, 14 Sep 1997 15:38:15 -0700
From: "Kelly Ellison" <kelman@dialnet.net>
To: <qrp-1@Lehigh.EDU>
Subject: [26765] Vertical Antenna project - help
Message-ID: <199709142037.PAA22508@shell.dialnet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi All,

I just picked up a Telex/Hy-gain DX-88 Vertical. The question is... What kind of REALISTIC Ground System do I need for this ground mounted antenna? The manual says 16 radials that are 14 ft long. Do I need radials that are quarter wave lengths for each band? I have a bunch of scrap insulated wire laying around here. Can I use that, or should I use bare wire? I will check the QRP-L archives for info on verticals but I thought I would start here. Please reply direct at kelman@dialnet.net . I remember having good luck with a vertical when I was a Novice years ago so I thought I would try putting one up here. Any PRACTICAL advice is welcome.

Best Regards,

Kelly Ellison
WB0WQS
Aurora, Missouri

Date: Sun, 14 Sep 1997 14:16:53 -0700 (MST)
From: flydnq7x@primenet.com (Floyd Smithberg)
To: qrp-l@Lehigh.EDU
Subject: [26766] NQ7X off to Aurora,CO
Message-ID: <199709142116.0AA20847@usr09.primenet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Leaving Mon AM for Aurora,CO via Flagstaff & Albuquerque for my granddaughters's wedding on the 20th...staying at my son's KE0DE. May come back thru Boulder, Durango etc...weather permitting. Will be driving 23' Motorhome and will have TT Scout on 20M/40M with Hamsticks & Hustlers and 2M mobile rigs (not to mention a CB too)so will do some operating along the way. Putting QRP-L on postpone as of tomorrow morning 'til we return around the 27-30th. CUalll :-)

73 Floyd NQ7X Phoenix ScQRPion DM33uq
ARRL ARCI G-QRP NORCAL DX WRKD HF=324 SAT=101 QRP=103

Date: Sun, 14 Sep 1997 16:58:23 -0500 (CDT)
From: "J. Medley" <jmedley@ix.netcom.com>
To: qrp-l@Lehigh.EDU
Subject: [26767] Re: QSL card design
Message-ID: <199709142158.QAA18709@dfw-ix16.ix.netcom.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Michael,

I've used the Avery Label Pro software and the Avery card stock packages quite successfully. You can import your own graphics, change font styles, draw your own box sizes for things like RS(T), dates, etc. Very

simple process with this software. The cardstock isn't cheap, so do your check-prints on plain paper beforehand. If you think there's a chance you'll be sending out a large amount of QSL cards, it would be best to seek out a commercial printer or one of the services mentioned in most ham magazines.

The Avery cardstock numbers are:

#5388 - 3"x5" index cards (3 cards/sheet)

#5389 - 4"x6" post cards (2 cards/sheet)

These are laser cards, however they work quit well in my Canon Bubblejet as well. You can find them at most office supply stores, such as Office Depot, and at some Best Buy stores.

73's

Jan, KB0WQT

Date: Sun, 14 Sep 1997 16:47:43 -0600
From: wa5whn@juno.com
To: qrp-l@Lehigh.EDU
Cc: w5bi@flash.net, n7tx@primenet.com, johnmb@mindspring.com
Subject: [26768] QRP AField, Sept. 20th
Message-ID: <19970914.164752.2742.0.wa5whn@juno.com>

All-righty mighty qrp-lers,

I can already smell & taste those home made pancakes, with Hatch, NM green chili & fresh eggs and a dash of tabasco sauce already. Speaking of hot & spicy, how about the Solar Flux ? Well, according to our local DX Cluster/dice/shaman/ouji bbs, the solar conditions (ignoring the geo-magnetic storms, which could degrade the upper latitude propagation) for Sept. 20th are the following;

On Sept. 20th, this is what the Solar Prognostication Software (Solar Flux > 105) had indicated would be the best times for various parts of the World, from the SW - USA .

To the UK (G)

1700 UTC - 2000 UTC (15 meters)

To the Aussies (VK)

2200 UTC - 2300 UTC (20 meters)

2200 UTC - 0400 UTC (15 meters)

To the Canary Islands (EA8)

1800 UTC - 2300 UTC (15 meters)

To Alaska (KL7)

1800 - 0300 UTC (20 meters)

To Panama (HP)

1600 UTC - 0100 UTC (15 meters)

To Japan (JA)

2200 UTC - 0000 UTC (15 meters)

2000 UTC - 0500 UTC (20 meters)

To Canada (VE)

The entire contest period on both 15 & 20 meters.

Remember, these are predictions, for the SW-USA.

This is for 8 to 16 degrees (radiation angle)

W5BI & WA5WHN will be in maidenhead grid square: DM73ew (Yes, the very same place as the SES-'97, last July 3 - 5), or 72 statute miles east of Socorro, NM, & 26 statute miles south of Corona, NM, or 102 statute miles southeast of Albuquerque, NM, for this event. We will be operating strictly cw, since our mouths will be on fire from the green chili, tabasco sauce mixture. Gee, I dread that other feeling, ~ 24 hours later. ;-) No ice cream palor nearby. :-(

Details about the "QRP AField" (rules) contest are located on the KI7MN Web page. Just click on QRP Contests. (tnx Bob).

Also, those who had missed us on July 3 - 5 SES, get another chance (QRP) during this event.

Oh, and the UV index is expected to be high (> 8), for those of us in the SW-USA, so bring along lots of sunscreen. Decisions, decisions, beam or vertical ? Phil Collins CD's or The Rolling Stones ? Cola or the UnCola ? ;-)

72...Jay, WA5WHN DM65qd Albuquerque,
NM

<http://members.aol.com/JayMiller/index.html>

Date: Sun, 14 Sep 1997 18:56:10 -0400
From: Pete Rossi <wa3nna@resuba.com>
To: qrp-l@Lehigh.EDU
Cc: wa3nna@pete.resuba.com
Subject: [26769] QRP BEACONS ARE COMING!! QRP BEACONS ARE COMING!!
Message-ID: <199709142256.SAA02582@resuba.com>

*** RED ALERT ***

I hope to run the first QRP beacon session for the fall over the last weekend of September.. Stay tuned.

- - - -

I would like start maintaining a beacon announcement mailing list for those of you who would like to receive notice of future WA3NNA QRP beacons by direct e-mail.

I will continue to post my beacon announcements here on QRP-L but list subscribers would also receive a direct e-mail copy of the announcement .. in case they miss the one on QRP-L.

I know how hard it can be to keep up with all of the QRP-L postings and how easily stuff can be missed... especially if it backs up for more than a few days.

I expect to start posting all beacon announcements at least one weekend before the scheduled beacon session.

So.. Anyone who would like to receive e-mail announcements of future QRP beacons, send a VERY short message to beacon@pete.resuba.com with the words:

SUBSCRIBE BEACON (e-mail address notification to be sent to)

I am going to start out maintaining this list manually and see how it goes. If it gets out of hand, I may need to go so some automated method. I also hope to have a QRP-BEACON web page up shortly which will contain upcoming QRP beacon information.

As before, I expect to concentrate on 80 and 40 meters but please pass along your suggestions for other bands, frequencies, times, and power levels.

Pete Rossi - WA3NNA
wa3nna@pete.resuba.com

Date: Sun, 14 Sep 1997 18:58:42 -0400 (EDT)
From: K5BDZ@aol.com
To: kelman@dialnet.net, qrp-l@Lehigh.EDU
Subject: [26770] Re: Vertical Antenna project - help
Message-ID: <970914185630_961359591@emout11.mail.aol.com>

Kelly

Have DX88 vertical. Ground is only connected to conduit that takes power from house to back of garage where Vertical is ground mounted. 'Course, the conduit is connected to the rebar of the swimming pool, so that might help. It works well.

Practical experience? One radial works (directive in direction of radial). Two radials work, same directive note. 4 radials give better, 4 direction coverage, etc. Dig radial thoughts until you're tired...in directions you want to operate...put in your radials, attach to DX88, and go in and operate! Have fun..Too much theory spoils the hobby!
Bill
K5BDZ

End of QRP-L Digest 848
